LineUp With Math[TM] **Alignment** **Nebraska Mathematics Standards – Dec. 2000**
8.2 COMPUTATION/ESTIMATION

Standard	*LineUp With Math*[TM] **Activities**
8.2.3 By the end of eighth grade, students will solve problems involving whole numbers, integers, and rational numbers (fractions, decimals, ratios, proportions, and percents) with and without the use of technology. Example indicators: • Use proportions to solve scale-model problems with fractions and decimals. • Problems should be of increasing level of difficulty and involve real-life situations.	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control. --Use percent relationships to resolve distance, rate, time conflicts in air traffic control.
8.2.5 By the end of eighth grade, students will apply strategies of estimation when solving problems with and without the use of technology. Example indicators: • Properly round to an appropriate place value if context permits. • Perform estimation prior to calculation. • Without a calculator, estimate square roots of whole numbers up to one hundred to the nearest whole number. • Use compatible numbers to perform mental math. • Use estimation to check reasonableness of an answer.	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.